

tvstudy v2.2.3 (ujVPF2)

Database: 127.0.0.1, Study: BLANK0000028044 (437), Model: Longley-Rice

Start: 2017.10.29 21:22:12

Study created: 2017.10.29 21:21:17

Study build station data: LMS TV 2017-10-28 (42)

Proposal: WQ SJ-CD D23 DC CP QUEBRADILLAS, PR

File number: BLANK0000028044

Facility ID: 48237

Station data: User record

Record ID: 253

Country: U.S.

Build options:

Protect LPTV records from Class A

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
WVSN	D23	DT	CP	HUMACAO, PR	BLANK0000026037	140.7 km
WVSN	D23	DT	BL	HUMACAO, PR	DTVBL67190	140.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D23

Mask: Full Service

Latitude: 18 18 38.80 N (NAD83)

Longitude: 67 11 7.60 W

Height AMSL: 380.0 m

HAAT: 0.0 m

Peak ERP: 15.0 kW

Antenna: PSI-PSILP4BG-23 (ID 1001760) 90.0 deg

Elev Pattn: Generic

Elec Tilt: 0.75

49.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	11.9 kW	358.0 m	58.8 km
45.0	6.34	282.5	51.5
90.0	1.94	215.9	41.7
135.0	6.34	295.4	52.2
180.0	11.9	379.8	59.9
225.0	0.828	380.0	45.0
270.0	0.662	374.6	43.5
315.0	0.828	352.4	43.9

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m    Computed HAAT: 330 m

\*\*Proposal service area extends beyond baseline plus 1.0%

Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 2465.0 km

Distance to Mexican border: 3169.9 km

Conditions at FCC monitoring station: Santa Isabel PR

Bearing: 111.5 degrees Distance: 92.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 311.9 degrees Distance: 4364.3 km

Study cell size: 1.00 km

Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%

Maximum new IX to LPTV: 2.00%

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Interference to BLANK0000026037 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVSN	D23	DT	CP	HUMACAO, PR	BLANK0000026037	
Undesireds:	WQSJ-CD	D23	DC	BL	QUEBRADILLAS, PR	DTVBL48237	140.7 km
	WQSJ-CD	D23	DC	CP	QUEBRADILLAS, PR	BLANK0000028044	140.7
	WSJN-CD	D22	DC	CP	SAN JUAN, PR	BLANK0000028045	33.2
	WCVI-TV	D23	DT	LIC	CHRISTIANSTED, VI	BLCDT20090625AAH	132.6
	WUJA	D24	DT	CP	CAGUAS, PR	BLANK0000024838	27.1

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
23365.5	2,869,329	20604.6	2,485,563	20491.4	2,459,040	20469.7	2,453,589	0.11	0.22

Undesired		Total IX	Unique IX, before		Unique IX, after	
WQSJ-CD D23 DC BL	2.0	10	2.0	10		
WQSJ-CD D23 DC CP	28.5	5,461			23.6	5,461
WSJN-CD D22 DC CP	71.8	15,401	24.6	13,582	22.6	13,582
WCVI-TV D23 DT LIC	1.0	0	0.0	0	0.0	0
WUJA D24 DT CP	86.6	12,931	39.4	11,112	39.4	11,112

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Interference to BLANK0000026037 CP, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVSN	D23	DT	CP	HUMACAO, PR	BLANK0000026037	
Undesireds:	WQSJ-CD	D23	DC	BL	QUEBRADILLAS, PR	DTVBL48237	140.7 km
	WQSJ-CD	D23	DC	CP	QUEBRADILLAS, PR	BLANK0000028044	140.7
	WSJN-CD	D22	DC	BL	SAN JUAN, PR	DTVBL48239	33.2
	WCVI-TV	D23	DT	LIC	CHRISTIANSTED, VI	BLCDT20090625AAH	132.6
	WUJA	D24	DT	CP	CAGUAS, PR	BLANK0000024838	27.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23365.5	2,869,329	20604.6	2,485,563	20491.4	2,459,040	20469.7	2,453,589	0.11	0.22

Undesired		Total IX	Unique IX, before		Unique IX, after	
WQSJ-CD D23 DC BL	2.0	10	2.0	10		
WQSJ-CD D23 DC CP	28.5	5,461			23.6	5,461
WSJN-CD D22 DC BL	71.8	15,401	24.6	13,582	22.6	13,582

WCVI-TV D23 DT LIC	1.0	0	0.0	0	0.0	0
WUJA D24 DT CP	86.6	12,931	39.4	11,112	39.4	11,112

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Interference to BLANK0000026037 CP, scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVSN	D23	DT	CP	HUMACAO, PR	BLANK0000026037	
Undesireds:	WQSJ-CD	D23	DC	BL	QUEBRADILLAS, PR	DTVBL48237	140.7 km
	WQSJ-CD	D23	DC	CP	QUEBRADILLAS, PR	BLANK0000028044	140.7
	WSJN-CD	D22	DC	CP	SAN JUAN, PR	BLANK0000028045	33.2
	WCVI-TV	D23	DT	LIC	CHRISTIANSTED, VI	BLCDT20090625AAH	132.6
	WUJA	D24	DT	BL	CAGUAS, PR	DTVBL8156	27.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23365.5	2,869,329	20604.6	2,485,563	20491.4	2,459,040	20469.7	2,453,589	0.11	0.22

Undesired	Total IX		Unique IX, before		Unique IX, after	
WQSJ-CD D23 DC BL	2.0	10	2.0	10		
WQSJ-CD D23 DC CP	28.5	5,461			23.6	5,461
WSJN-CD D22 DC CP	71.8	15,401	24.6	13,582	22.6	13,582
WCVI-TV D23 DT LIC	1.0	0	0.0	0	0.0	0
WUJA D24 DT BL	86.6	12,931	39.4	11,112	39.4	11,112

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Interference to BLANK0000026037 CP, scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVSN	D23	DT	CP	HUMACAO, PR	BLANK0000026037	
Undesireds:	WQSJ-CD	D23	DC	BL	QUEBRADILLAS, PR	DTVBL48237	140.7 km
	WQSJ-CD	D23	DC	CP	QUEBRADILLAS, PR	BLANK0000028044	140.7
	WSJN-CD	D22	DC	BL	SAN JUAN, PR	DTVBL48239	33.2
	WCVI-TV	D23	DT	LIC	CHRISTIANSTED, VI	BLCDT20090625AAH	132.6
	WUJA	D24	DT	BL	CAGUAS, PR	DTVBL8156	27.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23365.5	2,869,329	20604.6	2,485,563	20491.4	2,459,040	20469.7	2,453,589	0.11	0.22

Undesired	Total IX	Unique IX, before	Unique IX, after
WQSJ-CD D23 DC BL 2.0 10	2.0	10	
WQSJ-CD D23 DC CP 28.5 5,461	28.5	5,461	23.6 5,461
WSJN-CD D22 DC BL 71.8 15,401	71.8	15,401	24.6 13,582 22.6 13,582
WCVI-TV D23 DT LIC 1.0 0	1.0	0	0.0 0 0.0 0
WUJA D24 DT BL 86.6 12,931	86.6	12,931	39.4 11,112 39.4 11,112

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Interference to DTVBL67190 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVSN	D23	DT	BL	HUMACAO, PR	DTVBL67190	

Undesireds:	WQSJ-CD	D23	DC	BL	QUEBRADILLAS, PR	DTVBL48237	140.7 km
	WQSJ-CD	D23	DC	CP	QUEBRADILLAS, PR	BLANK0000028044	140.7
	WSJN-CD	D22	DC	CP	SAN JUAN, PR	BLANK0000028045	33.2
	WCVI-TV	D23	DT	LIC	CHRISTIANSTED, VI	BLCDT20090625AAH	132.6
	WUJA	D24	DT	CP	CAGUAS, PR	BLANK0000024838	27.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23366.5	2,869,966	20602.6	2,485,069	20484.5	2,456,862	20461.9	2,450,618	0.11	0.25

Undesired	Total IX	Unique IX, before		Unique IX, after	
WQSJ-CD D23 DC BL	2.0	0	1.0	0	
WQSJ-CD D23 DC CP	29.5	6,244		23.6	6,244
WSJN-CD D22 DC CP	75.8	16,566	26.6	14,747	26.6 14,747
WCVI-TV D23 DT LIC	1.0	0	0.0	0	0.0 0
WUJA D24 DT CP	89.5	13,460	41.3	11,641	41.3 11,641

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Interference to DTVBL67190 BL, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVSN	D23	DT	BL	HUMACAO, PR	DTVBL67190	
Undesireds:	WQSJ-CD	D23	DC	BL	QUEBRADILLAS, PR	DTVBL48237	140.7 km
	WQSJ-CD	D23	DC	CP	QUEBRADILLAS, PR	BLANK0000028044	140.7

WSJN-CD	D22	DC	BL	SAN JUAN, PR	DTVBL48239	33.2
WCVI-TV	D23	DT	LIC	CHRISTIANSTED, VI	BLCDT20090625AAH	132.6
WUJA	D24	DT	CP	CAGUAS, PR	BLANK0000024838	27.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23366.5	2,869,966	20602.6	2,485,069	20484.5	2,456,862	20461.9	2,450,618	0.11	0.25

Undesired	Total IX	Unique IX, before		Unique IX, after	
WQSJ-CD D23 DC BL	2.0	0	1.0	0	
WQSJ-CD D23 DC CP	29.5	6,244		23.6	6,244
WSJN-CD D22 DC BL	75.8	16,566	26.6	14,747	26.6 14,747
WCVI-TV D23 DT LIC	1.0	0	0.0	0	0.0 0
WUJA D24 DT CP	89.5	13,460	41.3	11,641	41.3 11,641

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Interference to DTVBL67190 BL, scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVSN	D23	DT	BL	HUMACAO, PR	DTVBL67190	
Undesireds:	WQSJ-CD	D23	DC	BL	QUEBRADILLAS, PR	DTVBL48237	140.7 km
	WQSJ-CD	D23	DC	CP	QUEBRADILLAS, PR	BLANK0000028044	140.7
	WSJN-CD	D22	DC	CP	SAN JUAN, PR	BLANK0000028045	33.2
	WCVI-TV	D23	DT	LIC	CHRISTIANSTED, VI	BLCDT20090625AAH	132.6
	WUJA	D24	DT	BL	CAGUAS, PR	DTVBL8156	27.1



Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23366.5	2,869,966	20602.6	2,485,069	20484.5	2,456,862	20461.9	2,450,618	0.11	0.25

Undesired	Total IX	Unique IX, before		Unique IX, after	
WQSJ-CD D23 DC BL	2.0	0	1.0	0	
WQSJ-CD D23 DC CP	29.5	6,244		23.6	6,244
WSJN-CD D22 DC CP	75.8	16,566	26.6	14,747	26.6 14,747
WCVI-TV D23 DT LIC	1.0	0	0.0	0	0.0 0
WUJA D24 DT BL	89.5	13,460	41.3	11,641	41.3 11,641

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Interference to DTVBL67190 BL, scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVSN	D23	DT	BL	HUMACAO, PR	DTVBL67190	
Undesireds:	WQSJ-CD	D23	DC	BL	QUEBRADILLAS, PR	DTVBL48237	140.7 km
	WQSJ-CD	D23	DC	CP	QUEBRADILLAS, PR	BLANK0000028044	140.7
	WSJN-CD	D22	DC	BL	SAN JUAN, PR	DTVBL48239	33.2
	WCVI-TV	D23	DT	LIC	CHRISTIANSTED, VI	BLCDT20090625AAH	132.6
	WUJA	D24	DT	BL	CAGUAS, PR	DTVBL8156	27.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23366.5	2,869,966	20602.6	2,485,069	20484.5	2,456,862	20461.9	2,450,618	0.11	0.25

Undesired		Total IX	Unique IX, before		Unique IX, after	
WQSJ-CD D23 DC BL	2.0	0	1.0	0		
WQSJ-CD D23 DC CP	29.5	6,244			23.6	6,244
WSJN-CD D22 DC BL	75.8	16,566	26.6	14,747	26.6	14,747
WCVI-TV D23 DT LIC	1.0	0	0.0	0	0.0	0
WUJA D24 DT BL	89.5	13,460	41.3	11,641	41.3	11,641

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Interference to proposal, scenario 1

3.57% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQSJ-CD	D23	DC	CP	QUEBRADILLAS, PR	BLANK0000028044	
Undesireds:	WSJN-CD	D22	DC	CP	SAN JUAN, PR	BLANK0000028045	107.5 km
	WVSN	D23	DT	CP	HUMACAO, PR	BLANK0000026037	140.7
	WUJA	D24	DT	CP	CAGUAS, PR	BLANK0000024838	113.7

	Service area		Terrain-limited		IX-free		Percent IX
7801.7	720,377	7189.9	579,927	6772.0	559,208	5.81	3.57

Undesired		Total IX		Unique IX	Prcnt Unique IX
WVSN D23 DT CP	417.8	20,719	417.8	20,719	5.81 3.57

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Interference to proposal, scenario 2

3.75% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQSJ-CD	D23	DC	CP	QUEBRADILLAS, PR	BLANK0000028044	
Undesireds:	WSJN-CD	D22	DC	CP	SAN JUAN, PR	BLANK0000028045	107.5 km
	WVSN	D23	DT	BL	HUMACAO, PR	DTVBL67190	140.7
	WUJA	D24	DT	CP	CAGUAS, PR	BLANK0000024838	113.7

	Service area		Terrain-limited		IX-free		Percent IX
	7801.7	720,377	7189.9	579,927	6773.0	558,200	5.80 3.75

Undesired		Total IX		Unique IX		Prcnt Unique IX
WVSN D23 DT BL	416.9	21,727	416.9	21,727	5.80	3.75